Hydrazine, 1,1-dimethyl-2-propyl-

Other names: 1,1-Dimethyl-2-n-propylhydrazine
Inchi: InChI=1S/C5H14N2/c1-4-5-6-7(2)3/h6H,4-5H2,1-3H3
InchiKey: OZBIETPCMMGBGS-UHFFFAOYSA-N
Formula: C5H14N2
SMILES: CCCNN(C)C
Mol. weight [g/mol]: 102.18
CAS: 52728-54-8

Physical Properties

Property code	Value	Unit	Source
gf	191.39	kJ/mol	Joback Method
hf	-25.53	kJ/mol	Joback Method
hfus	16.83	kJ/mol	Joback Method
hvap	35.20	kJ/mol	Joback Method
log10ws	-0.66		Crippen Method
logp	0.463		Crippen Method
mcvol	101.270	ml/mol	McGowan Method
pc	3513.74	kPa	Joback Method
rinpol	708.00		NIST Webbook
rinpol	708.00		NIST Webbook
tb	376.41	K	Joback Method
tc	545.47	K	Joback Method
tf	231.24	K	Joback Method
vc	0.368	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	189.13	J/mol×K	376.41	Joback Method
cpg	200.50	J/mol×K	404.59	Joback Method
cpg	211.39	J/mol×K	432.76	Joback Method
cpg	221.84	J/mol×K	460.94	Joback Method
cpg	231.85	J/mol×K	489.11	Joback Method
cpg	241.43	J/mol×K	517.29	Joback Method

cpg	250.59	J/mol×K	545.47	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C52728548&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume